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THE
PLOTTER

CLACKAMAS COUNTY AREA T/S
USERS GROUP
NEWSLETTER

‡‡‡
VOLUME 2, NUMBER 10
‡‡‡‡‡

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MEETINGS

The next meeting of CCAT/S will be held:

     on: FRIDAY, OCT. 5
     at: 7:30 P. M.
     in: RM 142, CLAIRMONT HALL
         CCC

As you can see, we have had to go back to Friday night. We will have to stay with Fridays until we can find a meeting room that will be open to us on Thursdays. We will have more news on this at the meeting.

Our last meeting was held on Thursday, Seotember 6, at 7:30 PM, in RM. 142, Clairmont Hall, CCC. There were 20 people in attendance. Two of them were new and signed up as members before they left. Welcome aboard Frank Beddow and Dennis Tomlin. We hope that you will enjoy being a part of CCAT/S.
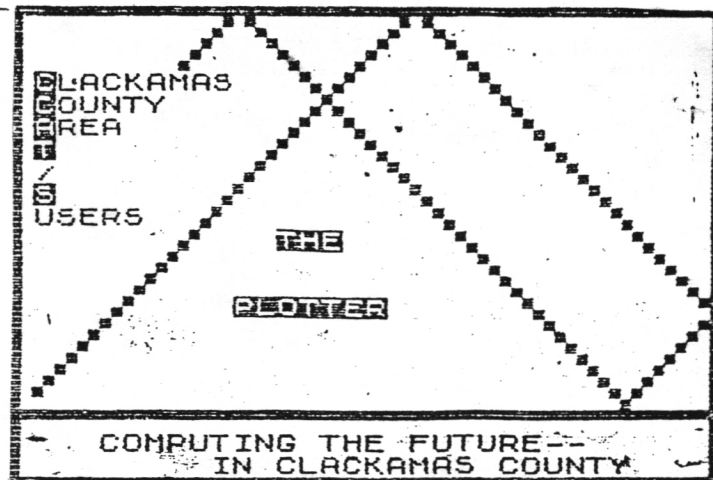
Some of the items discussed were: Subscriptions to mags, the newsletter exchange, meeting day and time, what to do with group funds, new books in the Library, and machine language programming classes.

It was voted on and approved that the group invest in a good tape recorder head demagnetizer to be placed in the Library for use by any member who needs it. It will be a nice compliment to the head alignment kit donated for our use by Dick Wagner earlier. It will be available at our Oct. meeting.

The meeting was adjourned at 8:10 PM, and we went on to see demos and look at the Library.

Remember the TIME and PLACE--

SEE YOU THERE!!!

COMPUTING THE FUTURE--
IN CLACKAMAS COUNTY

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BITS and BYTES

Here we are again with lots of news, some good, some not so good, but nothing very bad.

We are now using the TASWORD TWO WORD PROCESSOR for the first time this issue. However, if you will notice we are still using a 32 column format. The major reason for this is the fact that there are some of us out here that have less than 20/20 vision and cannot read the print produced by the Timex 2040 printer in the 64 column mode. If you are going to submit material and

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```

WHAT YOU'LL FIND
-IN THIS ISSUE-
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$$$$$$$$$$$$$$$
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you have a 2040 printer, we ask that you either use WP32 or TWII in this mode. Otherwise we will have to retype the material to suit. To get this print with TW-II you just set the right margin at 32, go into the screen window mode, turn off the just- ify function and begin to type. We are also asking that you use Radio Shack TP-10 printer paper as it prints out much darker than Timex paper. If you do not have any printer or a WP, do not let that stop you from sending in your material. We will accept any written matter, even that written with crayon on freezer paper.

WESTRIDGE- as we told you last month, Stuart Lotwin, the head of Westridge, passed away in August. We now have found out that all of their accounts have been taken over by the manufact- urer of the 2050 modem, Anchor Automation. The Terminal II Smart Software is supposed to be available around the 22nd of September. It may even be out by the time you are reading this. The price is $29.95 factory list We certainly hope so.

BYTE-BACK CO.- says that the smart software for the MD68 modem will be out by the end of Seotember. Again, all we can say is "we sure hope so". They also have an RS232 serial IF avail- able for $69.95+ ph. All Byte- Back products are available through RMG Enterprises locally.

TRIANGLE USER'S GROUP- one of the over 12 groups now recipro- cating in our newsletter exch- ange program has a member who is marketing a Spectrum Emulator board for sale. It is a 2 in.X 3 in. board that plugs into the cartfidge port and allows you to run all Spectrum Software on your 2068. Just pull the board out and you once again have your 2068 back. The price is $60.00 pp. If you are interested, get in touch with Rod Gowen for the address to order it.

NEWSLETTER EXCHANGE- we are now exchanging newsletters with 14 user groups from around the U.S. and Canada. We enjoy reading the news from these groups and glea- ning from them all that is int- eresting and relevant for our own newsletter. We certainly hope that the other groups don't mind us reprinting their mater- ial. After all, it is for the good of all dedicated Sinclair/ Timex users. We wish to say here that if there is ever anything in our little newsletter that anyone wants to reprint, feel free to do so as long as you send us a copy. Our thanks.
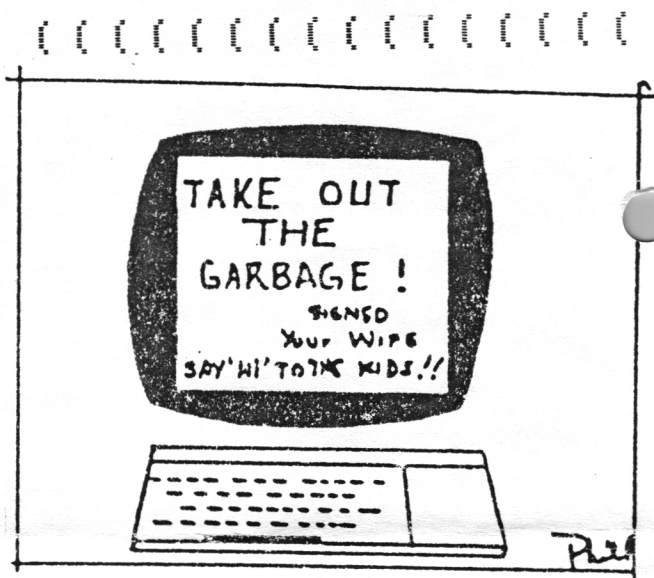
TIMEX 2068 TECH MANUAL- this book is available in the library for checkout. It has been used by several people already. Bob Cole is trying to build a floppu disc IF for the 2068. We wish him luck on his project.

DIGITAL TO ANALOG I/F- Dennis Jurries is working on a D to A converter fot the 2068. This would be used to directly conv- ert drawings and other material into data that feeds into and is recognized by the computer. Keep us informed Dennis.

USER DEFINED CHARACTERS- we have several members working with different methods of creating user defined character sets. In our next issue we will be pres- enting some of the articles on this subject. Watch for them.

OMSI COMPUTER FAIR- this show (Sept. 28, 29, 30: Fri-Sat-Sun) held at OMSI will have 2 tables for Sinclair/Timex products and groups. We will have represent- atives there all three days. Come on out if you can!

WELL- there is always more news than we have time or space to print. We wish that we had more space and time, but then there would be less to talk about at the next meeting. Lets see all of you there!!

((((((((((((((((((

TAKE OUT THE GARBAGE !
SIGNED YOUR WIFE
SAY 'HI' TO THE KIDS !!

Thanks to Paul Hill, SINCUS

# # # # # # # # # # # # #

16K RAMpack TEST
TYPE IN then RUN

```
1 POKE 18000,33
2 POKE 18001,11
3 POKE 18002,0
4 POKE 18003,57
5 POKE 18004,68
6 POKE 18005,77
7 POKE 18006,201
8 PRINT (USR (18000)-16373)/1
024;"K"
```


LIBRARY NOTES

NOTICE-: At the last meeting, someone removed both of the copies of ZX COMPUTING from the Library. While this is not unusual, the fact that whoever it was neglected to sign them out with the Librarian. Laura was a little upset and we don't blame her. If you all have received your membership cards, maybe you should take the time to learn the Library Rules. ESPECIALLY in regards to signing out the item you wish to borrow. To help in this matter we now have had made up new signout sheets for the Library. To reiterate the Rules:

1. YOU MUST SIGN OUT ANY MATER-
   IAL WITH YOUR MEMBERSHIP
   NUMBER AND YOUR SIGNATURE.
2. ALL MAGAZINES ARE TO BE RE-
   TURNED IN ONE (1) WEEK UN-
   LESS OTHER ARRANGEMENTS ARE
   MADE IN ADVANCE.
3. BOOKS MAY BE CHECKED OUT FOR
   ONE MONTH. GENERALLY MEET-
   ING TO MEETING.
4. ALL PUBLIC DOMAIN PROGRAMS
   IN THE TAPE LIBRARY MAY BE
   COPIED AT THE MEETINGS OR
   ARRANGEMENTS CAN BE MADE
   WITH THE LIBRARIAN TO HAVE
   COPIES MADE AND PICK THEM UP
   AT THE LIBRARY AT A LATER
   TIME.

Of all the rules NUMBER 1 is the most important. In order for the library to work and to be fair to all,

   MAKE SURE YOU SIGN THEM OUT
   BEFORE YOU TAKE THEM!!!!

Thank you.

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CLACKAMAS COUNTY AREA TIMEX SINCLAIR USER'S GROUP

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ZX/TS P and R

This month our P and R comes from a couple of new sources. The 1000 programs come to us from SINCUS NEWS out of Johnson City, NY. They are just a couple of "just for fun" type programs. Our 2068 programs come to us from COMPUSERVE and the TIMEX section of the CEMSIG (Computer and Electronics Magazine Special Interest Group). As the group is now paying for one hour per month of CIS time, we are glad to find that we can find out a lot of industry news as well as getting some good software as well. Enjoy***>

RANDOM REFLECTIONS

BY T. D. K.

   When I finished assembling my ZX-81 I was led to believe that this mass of silicon and copper foil was an inanimate device, with no human qualities or thoughts of its own. If I gave it a little encouragement by entering a simple instruction it could give me the value of PI to 12 places, but I could sense that it wanted to express itself on more frivolous subjects.

   When I asked it to plot SIN and COS curves it became very excited and wanted more. After a little massaging, the following program was developed. Of course, you'll have to crank it into your Mickey Mouse contraption to find out what lecherous thoughts were uppermost in its (?) mind!!

                    Theo Koranye
                    SINCUS

```
5 REM "DOLLY"
6 REM THEO KORANYE, SINCUS
7 PRINT AT 2,8;"DOLLYS NECKLI
NE"
10 FOR N=0 TO 63
20 PLOT N,40*COS (N/63*PI)
30 NEXT N
40 PAUSE 200
55 PRINT AT 5,8;"DOLLY UNDERNE
ATH"
60 FOR N=0 TO 31
70 PLOT N,20-(20*SIN (N/32*PI)
)
80 NEXT N
90 FOR T=32 TO 63
100 PLOT T,20+(20*SIN (T/32*PI)
)
110 NEXT T
```

      (Cont. next page)

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`##################`

LOTS OF COLOR
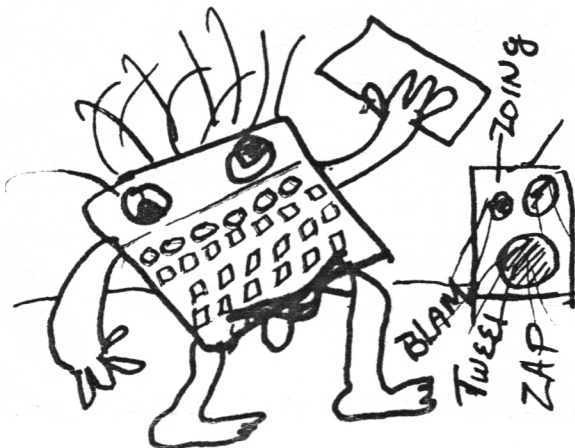
from: Randy Kuhn
CIS 72376,1122

Program for more than 8 colors:

```
 10 FOR I=1 TO 8
 20 READ A: POKE USER CHR$ 144+
I,A
 30 NEXT I
 32 FOR I=1 TO 704
 35 LET D=INT (RND*7): LET G
=INT (RND*7)
 40 PRINT INK D; PAPER G; CHR$
144;
 50 NEXT I
 60 DATA 170,85,170,85,170,85,
170,85
```

Program makes a checkerboard
pattern with paper and ink
colors appearing to be mixed,
producing new colors.

"STOP THE NOISE
I'M GOING CRAZY"

INSANE COMPUTER

from: Patrick Spara
SYSOP-CIS-SEC. 4

This is a further expansion on
the sound program for insane
sounding computers.

```
 10 LET A=INT (RND*255)
 11 LET A1=INT (RND*15)
 12 LET A2=INT (RND*255)
 13 LET A3=INT (RND*15)
 14 LET A4=INT (RND*255)
 15 LET A5=INT (RND*15)
 16 LET A6=INT (RND*31)
100 SOUND 0,A;1,A1;2,A2;3,
A3;4,A4;5,A5;6,A6;7,56;8,15;
9,15;10,15
200 PAUSE 0
210 IF INKEY$="P" THEN GO TO
300
220 GO TO 10
300 PRINT "CHANNEL 1; FINE=
";A
310 PRINT "CHANNEL 1; COARSE=
";A1
320 PRINT "CHANNEL 2; FINE=
";A2
330 PRINT "CHANNEL 2; COARSE=
";A3
340 PRINT "CHANNEL 3; FINE=
";A4
350 PRINT "CHANNEL 3; COARSE=
";A5
360 PRINT ,,"NOISE= ";A6
370 PRINT ,,"ENABLE= ";56
375 PRINT ,,"NOTES:"
380 PAUSE 0
390 COPY
400 CLS
410 GO TO 200
9999 SAVE "RND SOUND" LINE 1
```

What this program does is rand-
omly set up the sound channels.
By pressing any key but "P", you
reset the random's. As a result,
you can listen to the sounds,
bypassing the ones you don't
like. If you do hear something
you like, just press "P" and it
will print the current channel
data to the screen. Press any
key again, and it will present
you with a hardcopy.

The practical use is obvious.
Now, you don't have to be a wiz
to come up with lasar and
spaceship sounds. The program
will do it for you.

ENJOY

```
 10 CLS : LET z=1
 15 FOR i=1 TO 29
 20 LET x=RND*7
 25 INK x: BORDER x
 30 BEEP .1,x
 35 CIRCLE 128,88,z
 40 BEEP .5,x
 45 LET z=z+3
 50 NEXT i
 55 LET z=1
 60 FOR i=1 TO 28
 65 CIRCLE INVERSE 1;128,88,z
 70 LET z=z+3
 75 NEXT i
 80 CIRCLE 80,100,8
 85 CIRCLE 176,100,9
 90 PLOT 80,60
 95 DRAW 90,0,PI
```

################
ARTICLE
RIGHT & DECIMAL
JUSTIFICATION

by Dennis Jurries

```
10 LET A$="your number"
20 PRINT AT x,y-LEN A$;A$

   x and y are the print
   row and column
```

Decimal Justification

```
  10 LET A$ = "your number"
  20 FOR n=1 TO LEN A$
* 30 IF CODE A$(n)=27 THEN GOTO
     100
  40 NEXT n
  50 STOP
 100 PRINT AT x,y-n;A$
```

```
* 27 is for TS 1000
  46 should be used on 2068
```

DIM String Decimal Justification

In dimensioned strings (DIM A$(3,6)) all of the strings have the same length. IE. 3.2 & 987. 15 for the above DIM statement have a length of 6. The computer holds the number from left to right in the string with empty spaces finishing the length. In the above example, "3.2---" and "987.15"   -= space

example:

First set up the print location
```
  10 INPUT x
  20 INPUT y
```
Initialize the array
```
  40 LET A$(1)="your #1"
  50 LET A$(2)="#2"
  60 LET A$(3)="#3"
```
Set up the search routine
```
   70 FOR n=1 TO 3
   80 LET B= VAL A$(n)
   90 LET B$= STR$ B
  100 FOR I=1 TO LEN B$
* 110 IF CODE B$(I)=27 THEN GO-
      SUB 1000
* 120 IF CODE B$(I)=27 THEN GOTO
      140
  130 NEXT I
  140 NEXT N
  150 STOP
```
Print Subroutine
```
 1000 PRINT AT x,y-I;B$
 1010 LET x=x+1
 1020 RETURN
```

```
* 27 is for TS 1000
  46 should be used for 2068

# should be any 6 place or
  less number for this
  example
```

For right DIM justification eliminate all lines from 100 on and put in new line 100
100 PRINT AT x,y-LEN B$;B$

5

ATTRIBUTES

by Dennis Jurries

The attributes file controls the colors, FLASH and BRIGHT. The file starts at address 22528 and ends at address 23295 for a length of 768 bytes.(24 rows * 32 columns)

The address of the attribute of a certain position on the screen can be found by using the following formula:

$$address = 22528 + 32*x + y$$

x = row   y = column

Peeking that address gives you the attribute.

Each attribute is a single byte.

FLASH	BRIGHT	PAPER	INK
on/off	on/off	3 bits	3 bits
0 or 1	0 or 1		

The attribute number is a decimal number corresponding to a binary number that is represented in the above table.

The 1's and 0's for the ink and paper can be found by knowing that the first column on the right in each case is 1, the second column is a 2, and the third column is a 4. By putting a 1 in those various columns you can end up with colors ranging from 0 to 7. After selecting the status of the FLASH and the BRIGHT you end up with an 8 bit binary number say 10010101.

Now you must convert your binary number to decimal. This is accomplished by using 2's compliment. Starting from the right each column of a binary number has a corresponding decimal value equal to a power of 2. So the right column would be 2↑0,2↑1,2↑2,2↑3,2↑4,2↑5,2↑6,and 2↑7. These 2 powers would make the values of the binary columns from right to left equal to 1,2. 4,8,16,32,64,and 128.

Taking the example binary number above and converting from right to left we would end up with the attribute value of:

ATTRIBUTE value = 1+4+16+128
               = 149
             or

FLASH on, BRIGHT off, PAPER red , INK cyan.

You can POKE attribute values into the addreses mentioned or PEEK the values. In games you can compare the attributes at various locations with say POINT which is the last plot location.

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SOFTWARE
REVIEW

Milwaukie, Oregon
September 3, 1984

Dear Ed:

I have had the TASWORD TWO word processor for about a week now and I think it is all I could want in a processor program.

I like the word-wrap and the justify, because I am a hunt and pecker, this means I don't have to look at the screen all of the time. I still have a lot to learn about the mode the keys work inm But that will all come in time.

To do this program justice you realy need a 62 column printer. for this letter I have set the right margin to 31 columns and set the program to print 31 columns. This means I will use only 1/2 of the screen when I am typing in the text. I open the window so the printer will print as it always does.

The most complicated part of the program is learning the CONTROL KEYS but as I said that will all comein time.

It has the ability to delete and add letters, words and lines, justify, unjustify, word wrp, not to word wrap, copy all or part of the text, move a line, a word.

Print at double heigh or to

print at normal heigh.

If anyone is thinking word processor I can say with all honesty I am sure this would fill the bill.

Bob Evans
CCAT/S

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TASWORD TWO USER REPORT

by Jack Armstrong

I found the manual to be fairly well done--my usual complaint that they could make things a little clearer for dunderheads like myself. All in all it is not too bad.

I had trouble with the loading and I'm not sure just what the problem is...I got an R Tape Loading Error several times--the line reported was 2030 at least twice. The program did run, however and I was able to try all the features (this is a well-thought-out program) the ability to move blocks, delete lines, change characters, add and subtract spaces or blank lines are all very useful and I liked the ability to move the cursor almost anywhere you want.

When I checked through the Tutor Text (When I had the Loading Error) I found a strange character in one of the words--couldn't tell what it was, but I changed it to read properly and went merrily on. That brings up the biggest gripe I have with the program: it prints 64 cpl in a condensed form. Is there any way to get the regular size 32 cpl format?

When you are using the Tasword you can hardly make out what some of the characters are, especially some of the special characters and the numbers. It is hardly any better on the printer--they are very difficult to read.

The one real danger when printing on the 2040 is forgetting to us the P in Ext. Mode and automatically going to the STOP/Shift and getting the Option Chart and then pressing the P key per the instructions given on the chart--HORRORS! You get locked up in a mode designed to send to an alien printer and the only way out is to pull the plug!

Well, I guess that's about all I can report for now...I'll keep using the Tasword whenever I can and if I discover anything new or run into any more problems I'll be in touch. If you find out how to get the 32 cpl in regular size characters please let me know.

I'm sure the designers must have meant the program to be used on a full-size printer and they made it to get 64 cpl on other third-party machines.

The feature that enables one to change a word throughout the text only worked part of the time--like the little girl with a little curl: right in the middle of her forehead. When she was good she was very, very good and when she was bad she was horrid!

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ODDBALL SOFTWARE™

We announce - ODDBALL SOFTWARE™ MAGAZINE !! - a unique clearinghouse of information about special-purpose programs written to solve a particular need. Of course, these programs may well interest a wider group. But there was no way to find descriptions nor sources of such programs. Until now!

Oddball Software will briefly describe any type of special purpose software, and give the authors' names and addresses so that others can obtain the programs. These will not be commercially published programs; and they are not "public domain software". They will be sold by the authors themselves. Programs will be listable or with source code, with some documentation, but are not necessarily guaranteed. "Oddball" programs are written seriously by people knowledgeable in their own fields for their own purposes but which have wider applications ...

We solicit program descriptions from everyone, in every field, for every small computer. Listings consist of a type heading (e.g. Laboratory, Medicine, Home), program name, description, author's contact information, asking price, operating environment, form in which supplied, and whether the author can convert it to other formats. Please see your editor or write for program description forms and subscriptions.

Oddball Software Magazine, P.O. Box 1385, Pittsfield, MA, 01202.

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FROM THE EDITOR'S DESK-

Can you beleive it? October already!! It sure seems as though the year has just started and it's almost over. Oh well, no time to dwell, must get another great (good?) issue of The Plotter ready for the presses. Hope you enjoy it.

As the end of the year is near we must start to think about electing new officers. BUT- before we can elect them, we must call for nominations. We are only going to ask that you give it some serious consideration. Who do you think would make a good chairman, a good secretary-treasurer, as well as a good vice-chairman?

These positions are important. Our group is important. If we didn't think so we would not be here each month to nag you about contributing material and ideas to the newsletter and to the group as a whole.

We have been getting more in the line of material, and for that we do thank those of you that have been doing the contributing to the cause. Keep up the good work!!

THAT DOESN'T MEAN THAT THOSE OF YOU WHO HAVE NOT BEEN HELPING NEED NOT HELP, we still need LOTS OF HELP!!!

TILL NEXT TIME-

KEEP ON

POKEing and PEEKing####>

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NOTICES

Anyone who might be looking for a full-sized printer, please note that 80 PLUS Computer store on Woodstock in Portland, is selling the Gorilla Banana in the serial type for $140. If someone would like to get it in the Centronic Parallel type, they will sell them for $150 if they get an order for at least three of them.

If anyone has anything that looks to be a great buy, and you think that it might be of interest to the group, please let us know and we will make special note of it.

We at the Plotter would like to take this time to thank all who will have helped out at the OMSI Computer Show. With 30 hours of show, that is a lot of time to contribute for anything. We, and we hope CCAT/S as a group, thank you again for your time and efforts.

Our BBS still has had no use. If you have some software and/or hardware that you wish to trade, just submit it and we will print them as space permits, AT NO COST TO YOU!

Just a quick note of thanks again to all the other User Groups from whose newsletters we have borrowed material. We sincerely appreciate them allowing us to do so. We at the Plotter, are keenly aware of the work and time involved in putting together a newsletter of this type. Any help (including borrowing privileges) does a lot to lighten the load. And after all, isn't that one of the primary reasons for out exitence? The distribution of TS related news and ideas? LETS KEEP THE GOOD NEWS AND IDEAS COMING!

CLASSIFIED ADS

PLACE YOUR AD HERE

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